

**PURCHASERS' QUESTIONNAIRE**  
**URANIUM FROM RUSSIA**

*Return completed questionnaire to:*

**UNITED STATES INTERNATIONAL TRADE COMMISSION**  
Office of Investigations, Room 615  
500 E Street, SW, Washington, DC 20436

**So as to be received by the Commission by no later than March 30, 2006**

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with its countervailing duty and antidumping investigations concerning Uranium from Russia (inv. No. 731-TA-539-C (Second Review)). The information requested in the questionnaire is requested under the authority of the Tariff Act of 1930, title VII. This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your possession (19 U.S.C. § 1333(a)). Further information on this questionnaire can be obtained from Craig Thomsen (202-205-3226).

<p><b>Name of firm</b> _____</p> <p><b>Address</b> _____</p> <p><b>City</b> _____ <b>State</b> _____ <b>Zip code</b> _____</p> <p><b>World Wide Web address</b> _____</p> <p>Has your firm purchased uranium products and/or toll services (as defined in the instruction booklet) from any source (domestic or foreign) since January 1, 2000?</p> <p><input type="checkbox"/> <b>NO</b> (Sign the certification below and promptly return only this page of the questionnaire to the Commission)</p> <p><input type="checkbox"/> <b>YES</b> (Read the instruction booklet carefully, complete all parts of the questionnaire, sign the certification, and return the entire questionnaire to the Commission)</p>
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**CERTIFICATION**

*The undersigned certifies that the information herein supplied in response to this questionnaire is complete and correct to the best of his/her knowledge and belief and understands that the information submitted is subject to audit and verification by the Commission.*

*Your signature on the certification below will also serve as consent for the Commission, and its employees and contract personnel, to use the information you provide in this questionnaire and throughout these investigations in any other import-injury investigations conducted by the Commission on the same or similar merchandise. If you do not consent to such use, please note the certification accordingly.*

*The undersigned acknowledges that information submitted in this questionnaire response and throughout these investigations may be used by the Commission, its employees, and contract personnel who are acting in the capacity of Commission employees, for developing or maintaining the records of these investigations or related proceedings for which this information is submitted, or in internal audits and investigations relating to the programs and operations of the Commission pursuant to 5 U.S.C. Appendix 3. I understand that all contract personnel will sign non-disclosure agreements.*

\_\_\_\_\_  
*Name and Title of Authorized Official*

\_\_\_\_\_  
*Date*

\_\_\_\_\_  
*Signature of Authorized Official*

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*Phone*

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*Fax*

**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS**

The questions in this questionnaire have been reviewed with market participants to ensure that issues of concern are adequately addressed and that data requests are sufficient, meaningful, and as limited as possible. Public reporting burden for this questionnaire is estimated to average 45 hours per response, including the time for reviewing instructions, searching existing data sources, gathering the data needed, and completing and reviewing the questionnaire. Send comments regarding the accuracy of this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden, to the Office of Investigations, U.S. International Trade Commission, 500 E Street, SW., Washington, DC 20436.

*Please attach additional pages of discussion as needed to any question in this questionnaire; note the question number next to any such additional discussion.*

I-1. Please report below the actual number of hours required and the cost to your firm of preparing the reply to this questionnaire and completing the form.

\_\_\_\_\_ hours                      \_\_\_\_\_ dollars

I-2. Provide the name and address of establishment(s) covered by this questionnaire (see pages 3-5 of the instruction booklet for reporting guidelines). If your firm is publicly traded, please specify the stock exchange and trading symbol.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

I-3. Is your firm owned, in whole or in part, by any other firm?

No                       Yes--List the following information.

<u>Firm name</u>	<u>Address</u>	<u>Extent of ownership</u>
_____	_____	_____
_____	_____	_____

I-4. Does your firm have any related firms, either domestic or foreign, which are engaged in importing uranium products and/or toll services from Russia into the United States or which are engaged in exporting uranium products and/or toll services from Russia to the United States?

No                       Yes--List the following information.

<u>Firm name</u>	<u>Address</u>	<u>Affiliation</u>
_____	_____	_____
_____	_____	_____

**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS--Continued**

I-5. Does your firm have any related firms, either domestic or foreign, which are engaged in the production of uranium products and/or toll services?

No       Yes--List the following information.

<u>Firm name</u>	<u>Address</u>	<u>Affiliation</u>
_____	_____	_____
_____	_____	_____

I-6. Which of the following best describes your firm as a purchaser of uranium products and/or toll services (check all that apply, noting the specific end uses if known)?

- Electric utility \_\_\_\_\_
  - Nuclear fuel-assembly fabricator\_\_\_\_\_
  - Enricher \_\_\_\_\_
  - Converter \_\_\_\_\_
  - Trader/broker \_\_\_\_\_
  - Miner/Miller \_\_\_\_\_
  - Concentrator \_\_\_\_\_
  - Other (specify)\_\_\_\_\_
- \_\_\_\_\_

I-7. If your firm is a trader/broker/reseller of uranium products and/or toll services, what are the major types of consumers to which you sell uranium products and/or toll services?

\_\_\_\_\_

\_\_\_\_\_

I-8. Did your firm cease producing uranium over the January 2000-December 2005 period? If yes, please explain when and why you discontinued uranium production; identify the type(s) of uranium product(s)/services.

No       Yes

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\_\_\_\_\_

**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS--Continued**

PLEASE ANSWER THE REMAINING QUESTIONS IN PART I ONLY IF YOUR FIRM IS A U.S. ELECTRIC UTILITY THAT USES URANIUM AS ITS FUEL; OTHERWISE, SKIP TO PART II

I-9. a) Please discuss below your electric utility's reload cycle, explaining, as a minimum, (1) whether you change all of the reactor's fuel assemblies at once or some portion (identify the number replaced out of the total number), (2) the frequency (in months) of your reload cycle, (3) the extent to which you can extend or reduce the reload frequency, (4) the extent to which the costs of uranium products/services affect your reload cycle, and (5) any changes that occurred in the frequency of your reload cycle during January 2000-December 2005 and any you anticipate during 2006-2007.

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I-10. How long does it typically take to complete a reload and is the entire facility producing electricity shut down during the reload?

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I-11. How does the plant meet its customers' electricity demand during this reload-shutdown period?

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I-12. a) Has the average enrichment level in the core designs of your nuclear fuel changed between January 2000 and December 2005? *If yes*, please specify the changes and explain the reason(s) for such changes.

Yes       No

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b) Please explain below what costs and benefits are achieved from higher enrichment levels in the LEU and whether higher levels are necessary and sufficient for longer reload cycles and for higher capacity factors. Also discuss whether your reactors can accept any enrichment level of LEU, a single specific enrichment level of LEU, or some range of enrichment levels of LEU; please explain the reasons why.

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**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS--Continued**

I-13. Do fuel assembly design specifications (other than the uranium enrichment level) generally change at each reload such that the quantity of uranium in a reload for each of your plant's reactors vary? *If yes*, please specify the magnitude of the changes and explain the reason(s) for such changes.

Yes       No

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I-14. Please discuss how the following parameters have changed during the period of review and how these parameters are expected to change in the foreseeable future; specify time periods and reason(s) of any changes during the period of review and any future time period(s).

capacity factor \_\_\_\_\_

tails assay (percent) \_\_\_\_\_

fuel design/burn up \_\_\_\_\_

reactor power \_\_\_\_\_

I-15. Please describe the impact of these parameter changes on your firm's production, sales, and profitability.

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I-16. Are any of your plant's nuclear reactors able to use mixed oxide (MOX) or convert to use MOX as its fuel? *If yes*, please estimate the cost and time required to convert your fuel over to MOX and the reasons why you might switch from uranium to MOX. In addition, please indicate any plans your firm may have for the switch to MOX and note the time period and reason(s) of such a change. Please also indicate and describe regulatory requirements that need to be met in switching over to MOX.

Yes       No

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**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS--Continued**

I-17 Discuss the role of reprocessed fuel and other sources that do not involve the consumption of newly-processed uranium in meeting your future nuclear fuel demand. Do you foresee an increased role for reprocessed fuel and other sources in the next five years? If so please describe and include a discussion of how reprocessed fuel and other sources will affect your demand for uranium.

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**FURTHER INSTRUCTIONS:**

Unless otherwise instructed, please answer all questions in the remainder of this questionnaire based on your firm's actual market experience in purchasing uranium products/processing services during January 2000-December 2005. If your response differs by type of uranium product (uranium concentrates, natural and low-enriched UF<sub>6</sub>, low-enriched UO<sub>2</sub>, HEU compounds, and the depleted tails) or processing service (natural conversion, enrichment, enriched conversion/pelletizing), please explain in the margin or attach a separate response. **Please respond fully to the questions and attach additional discussion as needed; identify attached responses with the question number.**

**NOTE: EUP is LEU that is sold or purchased, where the customer does not provide natural UF<sub>6</sub> for toll enrichment.**

**NOTE: Nonsubject countries/suppliers of LEU refer to foreign countries/suppliers other than Russia.**

*Unless otherwise specified, U.S. delivery/shipment of uranium products or uranium services to U.S. customers, commonly U.S. electric utilities, is normally triggered by a **BOOK TRANSFER** to the customer. This book transfer may occur at the same time as the physical transport of the uranium, but frequently occurs some time after this physical transport (e.g., LEU is not physically transported to the U.S. electric utility's location). On the other hand, if your firm imports uranium products and is the end user (the latter commonly an electric utility), such imports constitute delivery and would normally be physically transported directly to the designated destination. Requests for information in this questionnaire regarding U.S. delivery/shipment of uranium products/services to your firm refers to material that has been book-transferred to your account at a designated facility either inside or outside the United States (during the period requested).*

**PART I.--GENERAL QUESTIONS AND INSTRUCTIONS--Continued**

I-18.

Report, as indicated below, the total quantity of uranium/services shipped/delivered/provided during <b>January 2000-December 2005</b> that your firm purchased from U.S. producers, U.S. importers, or other sources, and that which it imported directly. Report separately for outright purchases (no upstream products are transferred) of the finished products and for purchases of only the conversion or enrichment components. Indicate purchases of the completed product or just the service component where requested at the top of the table and <b>copy this table as needed to report both types of purchases.</b> <u>Please report for ALL purchases of uranium/services shipped/ delivered, including that loaded into reactors.</u> <i>The quantities should be net of returns.</i> <b>Note: Shipments/ deliveries include physical movements and book transfers.</b>						
Purchases of the completed products <input type="checkbox"/>			Purchases of only the service components <input type="checkbox"/>			
<i>Quantity in pounds of U<sub>3</sub>O<sub>8</sub> for uranium concentrates and kgs of U for the other uranium products, as well as 1,000 SWU for LEU</i>						
Countries:	Uranium concentrates	Natural UF <sub>6</sub>	Low-enriched UF <sub>6</sub> <sup>2</sup>		Low-enriched UO <sub>2</sub> <sup>2</sup>	
			kgU	1,000 SWU	kgU	1,000 SWU
United States						
Country of origin of concentrate: <sup>1</sup>						
Russia						
Country of origin of concentrate: <sup>1</sup>						
Other: _____						
Country of origin of concentrate: <sup>1</sup>						
Other: _____						
Country of origin of concentrate: <sup>1</sup>						
<sup>1</sup> If multiple countries and you need additional space, please note those countries below: _____ _____ _____ _____						
<sup>2</sup> Please indicate below the average product and tails assays of your firm's purchased and service- enriched/converted LEU for each country during the period.						
Countries:	Low-enriched UF <sub>6</sub>		Low-enriched UO <sub>2</sub>			
	Product assay	Tails assay	Product assay	Tails assay		
United States						
Russia						
Other: _____						
Other: _____						

**PART II.--PURCHASES**

II-1. Did the relative levels of your firm's annual deliveries (physical movements and book transfers) of uranium from different country sources change during January 2000-December 2005?

Yes       No

*If yes, please fully explain the reason(s), noting type(s) of uranium product(s) and the countries of origin of the products in your response. Attach additional pages of discussion as needed.*

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II-2. Does your firm attempt to maintain several unrelated sources of domestic and/or foreign supply of uranium products/toll-services? Please explain the reason(s) for your response, yes or no, and report for each type of uranium product/toll-service. *Attach additional pages of discussion as needed*

Yes       No Please explain below.

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II-3. Since January 1, 2000, has your firm been purchasing a greater proportion of its natural uranium UF<sub>6</sub>, LEU-HF, and/or LEU-DO products directly rather than obtaining them through separate toll-conversion and toll-enrichment contracts?

Yes       No

a) *If yes, please explain below for each of these processed products in the uranium fuel cycle why your firm has increased its share of direct purchases. In addition, please identify the country of origin of the uranium products you purchased directly. Respond separately for each type of uranium product. Attach additional pages of discussion as needed. If no, skip to question II-4.*

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**PART II.--PURCHASES--Continued**

II-4 Based on your reload requirements during 2000-2005, how much of the uranium (and conversion and enrichment services) used for these reloads was purchased by your firm on a spot basis and on a long-term contract basis? Report separately for the types of uranium products and processing-services listed below. Include both physical product movements and book transfers. If your answers vary by country of origin (U.S./Russia/All others) or import regime in the case of Russia (i.e., HEU Agreement, grandfathered, matched sales, or commercial), please report each on a separate page.

<i>Quantity in pounds of U<sub>3</sub>O<sub>8</sub> for uranium concentrates and kgs of U and SWU for the processing-services and other uranium products</i>				
	Spot purchases		Long-term contract purchases	
Direct product purchases: <sup>1</sup>				
Uranium concentrates				
Natural UF <sub>6</sub>	<i>(in kg of U)</i>	<i>(in 1,000 SWU)</i>	<i>(in kg of U)</i>	<i>(in 1,000 SWU)</i>
Low-enriched UF <sub>6</sub>				
Low-enriched UO <sub>2</sub>				
Processing services:				
Conversion to natural UF <sub>6</sub>				
Enrichment to low-enriched UF <sub>6</sub>				
Conversion to low-enriched UO <sub>2</sub>				

<sup>1</sup> Do not include any uranium products here that your firm obtained through toll-conversion or toll-enrichment.

II-5. (a) Have **spot** purchases for any of the uranium product and processing-service categories increased, decreased, or remained the same as a share of your total annual purchases in the affected product and processing-service categories during 2000-05?

Uranium concentrates	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Natural UF <sub>6</sub>	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Low-enriched UF <sub>6</sub>	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Low-enriched UO <sub>2</sub>	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Conversion to natural UF <sub>6</sub>	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Enrichment to LEU-HF	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same
Conversion to LEU-DO	<input type="checkbox"/>	Increased	<input type="checkbox"/>	Decreased	<input type="checkbox"/>	Remained the same

**PART II.--PURCHASES--Continued**

(b) *If increased or decreased*, explain why for each of those product and/or processing-service categories. Also identify any uranium products/services and the country(ies) of origin that your firm tends to buy on a spot basis and explain why.

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(c) What percentage of your uranium requirements (by quantity) for 2006-07 were contracted for by December 31, 2005? Respond for each type of uranium product and uranium service needed to fulfill your requirements during this two-year period.

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(d) What percent of your uranium long-term contracts fall into each of these categories?

		2000-05	2006-07
(1) <b>Long-term contracts</b> where prices are based on market prices at the time of delivery <u>and the contracts DO NOT specify</u> a price/cost-based floor, a price ceiling, or a discount from market price.	Uranium concentrates		
	Natural UF <sub>6</sub>		
	Low-enriched UF <sub>6</sub>		
	Low-enriched UO <sub>2</sub>		
(2) <b>Long-term contracts</b> where prices are <i>partially</i> based on market prices at the time of delivery <u>and the contracts specify</u> a price/cost-based floor, a price ceiling, a discount from the market price, or some combination of these.	Uranium concentrates		
	Natural UF <sub>6</sub>		
	Low-enriched UF <sub>6</sub>		
	Low-enriched UO <sub>2</sub>		
(3) <b>Long-term contracts</b> where prices are fixed or subject to escalator clauses specified in the contract.	Uranium concentrates		
	Natural UF <sub>6</sub>		
	Low-enriched UF <sub>6</sub>		
	Low-enriched UO <sub>2</sub>		

II-6. (a) Did your firm purchase uranium from Russia before January 1, 2000?

No--Skip to (c)       Yes - list type of uranium products/services

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**PART II.--PURCHASES--Continued**

(b) If yes, has your pattern of purchasing uranium products or uranium services from Russia changed since January 1, 2000?

- No, our pattern of purchasing is essentially unchanged.
  - Yes, we discontinued purchases from Russia because of the suspension agreement.
  - Yes, we reduced purchases from Russia because of the suspension agreement.
  - Yes, but we changed the pattern of purchases from Russia for reasons other than the suspension agreement (please explain below).
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(c) Has your pattern of purchasing from nonsubject foreign sources changed since January 1, 2000 (please check all that apply).

- We did not purchase from nonsubject foreign sources before or after the suspension agreement.
  - No, our pattern of purchasing is essentially unchanged.
  - Yes, we increased purchases from nonsubject countries because of the suspension agreement.
  - Yes, but we changed our pattern of purchases from nonsubject countries for reasons other than the order (please explain below).
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II-7. Has the use of **swaps** increased, decreased or remained the same in the uranium market since January 1, 2000? If there has been a change, please describe the effect it has had. Please include information for executed contracts and contracts entered into for delivery in 2006-07. In addition, please indicate what percentage of the uranium your firm purchased was involved in swaps in 2005.

- Increased                       Decreased                       Remained the same
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**PART II.--PURCHASES--Continued**

II-8. Has the use of **loans/leases** increased, decreased or remained the same in the uranium market since January 1, 2000? If there has been a change, please describe the effect it has had. Please include information for executed contracts and contracts entered into for delivery in 2006-07. In addition, please indicate what percentage of the uranium your firm purchased was involved in loans/leases in 2005.

Increased

Decreased

Remained the same

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II-9. Describe the ways in which any changes in your firm's demand for fuel (e.g., fuel design, refueling schedule, etc) affected your firm's purchases of uranium products/services during January 2000-December 2005. Please specify the time period to which you are referring.

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**PART II.--PURCHASES--Continued**

II-10. **Copy this page as needed.** Please report your purchases of uranium products and services between 2000 and 2005 by product or service and country of origin. Include all purchases of uranium products, including quantities delivered outside the United States for enrichment in nonsubject countries prior to importation into the United States.

**PRODUCT:**

Uranium concentrates  (in lbs.  $U_3O_8$ )      Natural  $UF_6$   (in kg U)      LEU-HF  (in kg U and SWU)      EUP  (in kg U and SWU)      LEU-DO  (in kg U and SWU)

Conversion (to natural  $UF_6$ ) services  (in kg U)      Enrichment services  (in kg U and SWU)      Fabrication services  (in kg U and SWU)

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**COUNTRY:**

United States       Russia (via HEU Agreement)       Russia (grandfathered)

Russia (Matched sales)       Russia (Commercial)       All other countries

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	2000	2001	2002	2003	2004	2005
Quantity purchased (product)						
Quantity purchased (service)						
Total value (US\$)						
Average product assay (%)						
Average tails assay (%)						
LEU oxides, nitrates, and metals, n.e.s.						

**PART II.--PURCHASES--Continued**

II-11. **Copy this page as needed.** Please report your purchases of uranium products and services that occurred via contracts negotiated between 2000 and 2005, by product or service and country of origin. Include all contract purchases of uranium products, including quantities delivered outside the United States for enrichment in nonsubject countries prior to importation into the United States. For purchases of Russian UF<sub>6</sub>, please specify whether the UF<sub>6</sub> was derived from downblended HEU or commercial uranium feed.

**PRODUCT:**

Uranium concentrates  (in lbs. U<sub>3</sub>O<sub>8</sub>)      Natural UF<sub>6</sub>  (in kg U)      LEU-HF  (in kg U and SWU)      EUP  (in kg U and SWU)      LEU-DO  (in kg U and SWU)

Conversion (to natural UF<sub>6</sub>) services  (in kg U)      Enrichment services  (in kg U and SWU)      Fabrication services  (in kg U and SWU)

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**COUNTRY:**

United States       Russia (via HEU Agreement)       Russia (grandfathered)   
 Russia (Matched sales)       Russia (Commercial)       All other countries

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	Total number of contracts: _____		
	Total Quantity (in kgU; except concentrate, in U <sub>3</sub> O <sub>8</sub> )	Total Quantity (in 1,000 SWUs)	Weighted average net f.o.b. value (in U.S. dollars)
2000			
2001			
2002			
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			

**PART II.--PURCHASES--Continued**

II-12. Please list your anticipated total purchases of natural uranium over the next ten years. For each year, please also provide the total quantity of natural uranium that is filled by existing contracts, i.e., "committed demand," and of this committed demand, the amount that is "open origin," i.e., the contract does not require a particular origin to be supplied. For purposes of this question, please assume that minimum contracted quantities will be purchased under existing contracts. *In addition, please submit copies of your completed EIA-858 forms for the 2000 - 2005 reporting years.*

Year	Total expected demand for natural uranium (in lbs. of U <sub>3</sub> O <sub>8</sub> )	Total quantity of natural uranium currently committed (in lbs. of U <sub>3</sub> O <sub>8</sub> )	Total quantity of committed demand that is of open origin (in lbs. of U <sub>3</sub> O <sub>8</sub> )
2006			
2007			
2008			
2009			
2010			
2011			
2012			
2013			
2014			
2015			

**PART III.--PURCHASING PRACTICES**

III-1. a) Does your firm make purchasing decisions involving uranium products and/or services based on the country of origin or on the identity of the producer of the uranium you purchase?

Country of origin:     Always     Usually     Sometimes     Never

Identity of producer:     Always     Usually     Sometimes     Never

If at least sometimes, please discuss how your firm determines the source and why this information is important.

Country of origin: \_\_\_\_\_

Identity of producer: \_\_\_\_\_

**PART III.--PURCHASING PRACTICES--Continued**

b) Estimate below for your firm's total purchases of uranium that were delivered during January 2000-December 2005, the quantity (in percent) that did not specify a particular country of origin, but permitted delivery of any uranium of legally acceptable origin.

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III-2. a) Since January 1, 2000, were your suppliers, U.S. or foreign, ever unable to supply your firm, wholly or partially, with uranium products and/or services desired by your firm in a timely manner at prevailing market prices?

Yes       No

If *yes*, please discuss below for each such occurrence the following:

- (1) the supplier and country of origin from whom you could not obtain the uranium,
- (2) the period during which you could not obtain the uranium, and
- (3) the quantity and type (and product assays, if applicable) of the uranium involved.

Please also submit any documentation regarding such unsuccessful attempts to obtain uranium.

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III-3. During January 2000-December 2005, was your firm placed on allocation by any of its suppliers of uranium products and/or services, told by any such suppliers that the quantity available was limited, or told your firm that they would be unable to deliver the full quantities ordered as originally scheduled?

Yes       No

If *yes*, please discuss for each occurrence the specific allocation program, quantity limitation, or delivery problem. Include in your discussion the name of the supplier, the country of origin, the time period, the uranium product and/or service, and the quantity involved.

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**PART III.--PURCHASING PRACTICES--Continued**

III-4. (a) Was it necessary for your firm to alter its reload schedule during January 2000-December 2005 to adjust to allocations, purchase limitations, shortfalls, or delays in uranium deliveries?

Yes       No

*If yes, please report how your reload schedule was altered and what impact this had on your electricity generation operations.*

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(b) Please explain below the importance of delivery lead times for spot purchases of the uranium products/ toll-services you purchased during 2000-05. For any advantage or disadvantage due to lead time differences, identify the product/service and foreign country of origin. Have average lead times changed since January 1, 2000? If so, to what extent?

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III-5. a) Since January 1, 2000, did your firm decline to accept a proposal or bid for uranium products and/or services from a potential supplier because of uncertainty about the quality of product or service offered or the reliability of the supplier?

Yes       No

*If yes, please explain below and identify the supplier(s) and country(ies) of origin. Respond separately for each product or service involved.*

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b) Please also discuss your firm's concern about the ability of any specific enricher(s) to supply the quantity and assays of uranium that you required during January 2000-December 2005 and in the future. Please specify the time period, the exact nature of any concerns, and the name(s) of the enricher(s).

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**PART III.--PURCHASING PRACTICES--Continued**

III-6. a) Do you require your suppliers to become certified or prequalified based on quality considerations or other physical/performance characteristic(s) of the uranium products and toll-services they sell to your firm?

Yes       No

*If yes, approximately what percent of your firm's total purchases of uranium/toll services during 2000-05 required some form of certification or pre-qualification? Respond for each type of uranium product/toll-service.*

Uranium concentrates	<input type="text"/>	Enrichment to LEU-HF	<input type="text"/>	LEU-HF	<input type="text"/>
Natural UF <sub>6</sub>	<input type="text"/>	Conversion to LEU-DO	<input type="text"/>	LEU-DO	<input type="text"/>
Conversion to natural UF <sub>6</sub>	<input type="text"/>	Pelletizing to LEU-P	<input type="text"/>	LEU-P	<input type="text"/>

b) Discuss below the factors your firm considers when qualifying a new supplier of uranium and estimate the time and cost to qualify a new supplier. Respond separately for each type of uranium product/service.

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III-7. Since January 1, 2000, have any domestic or foreign suppliers of uranium products/services ever failed in their attempts to qualify their uranium products/services with your firm, or have any producers lost their approved status?

Yes       No

*If yes, please identify these firms, the countries where they are located, the type(s) of uranium product(s)/service(s) and the reasons why they failed the qualification process.*

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III-8. (a) Since January 1, 2000, have you solicited, negotiated, signed, or been solicited to negotiate or sign any firm or contingent contracts with Russian suppliers of uranium or uranium processing services for the future supply of any Russian uranium products or processing services?

Yes       No

**PART III.--PURCHASING PRACTICES--Continued**

(b) *If yes*, please provide descriptions of these contracts/agreements/solicitations, identifying the type(s) and quantities of uranium product(s)/service(s), date(s) of commencement, and duration of the contracts/agreements/solicitations.

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III-9. How many suppliers did you generally contact before contracting to purchase uranium products or services on a spot basis and a long-term contract basis during January 2000-December 2005? Answer separately for enrichment and EUP.

Spot contract basis \_\_\_\_\_ Long-term contract basis \_\_\_\_\_

III-10. Do you expect new suppliers of uranium products/toll-services to enter the market in the near future?

Yes  No

*If yes*, please provide details, responding for each type of uranium product/toll-service, and identify the supplier, country of origin, and specific future time period covered in your response.

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III-11. How often did you add or remove suppliers of uranium products or services during January 2000-December 2005? Respond separately for each uranium product/service.

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III-12. Are you aware of any new uranium suppliers, either foreign or domestic, that have entered the market since January 1, 2000?

Yes  No

*If yes*, please identify the firm(s), country of origin, uranium product/service, and indicate how you became aware of them. .

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**PART III.--PURCHASING PRACTICES--Continued**

III-13. Do you expect new suppliers of uranium products/services to enter the market in the near future?

Yes     No

*If yes, please provide details identifying the supplier, country of origin, uranium product and/or service, and specific future time period covered in your response.*

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III-14. Please list the names of any firms you considered to be price leaders in their respective segments of the U.S. uranium market during 2000-05. A price leader is defined as (1) one or more firms that initiate a price change, either upward or downward, that is followed by other firms, or (2) one or more firms that have a significant impact on prices. A price leader does not necessarily have to be the lowest-priced supplier. For those firms identified as a price leader, please specify the time period in which a price change was communicated, whether the price change was upward or downward, and whether it covered a specific geographic region or a specific type of uranium product/toll-service.

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III-15. How often has your firm purchase the uranium products/services that are offered at the lowest price (including all price-related factors that affect the actual cost of uranium to your firm, such as tails assay) since January 1, 2000? Please respond for each product/service and method of purchase.

A = Always    U = Usually    S = Sometimes    R = Rarely    N = Never

Spot Purchases	Uranium concentrates	A   U   S   R   N	A   U   S   R   N
	Natural UF <sub>6</sub>	A   U   S   R   N	A   U   S   R   N
	Low-enriched UF <sub>6</sub>	A   U   S   R   N	A   U   S   R   N
	Low-enriched UO <sub>2</sub>	A   U   S   R   N	A   U   S   R   N
Long term contract purchases	Uranium concentrates	A   U   S   R   N	A   U   S   R   N
	Natural UF <sub>6</sub>	A   U   S   R   N	A   U   S   R   N
	Low-enriched UF <sub>6</sub>	A   U   S   R   N	A   U   S   R   N
	Low-enriched UO <sub>2</sub>	A   U   S   R   N	A   U   S   R   N



**PART III.--PURCHASING PRACTICES--Continued**

III-17. Please list, in order of their importance, the three major factors generally considered by your firm in deciding from whom to purchase uranium products/services for any one contract. Respond separately for each product/service if there is a difference.

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_

**PART IV.--SUPPLY FACTORS**

IV-1. (a) Have any significant changes occurred in the supply of uranium products/services range in the United States since January 1, 2000?

- Availability of imports:       Yes  No    If yes, for which product(s): \_\_\_\_\_
- Product range:                 Yes  No    If yes, for which product(s): \_\_\_\_\_
- Production inputs:             Yes  No    If yes, for which product(s): \_\_\_\_\_
- Production methods:          Yes  No    If yes, for which product(s): \_\_\_\_\_
- Production technology:       Yes  No    If yes, for which product(s): \_\_\_\_\_
- Other: \_\_\_\_\_               Yes  No    If yes, for which product(s): \_\_\_\_\_
- Other: \_\_\_\_\_               Yes  No    If yes, for which product(s): \_\_\_\_\_

If yes, please describe below any such changes, the factors (including possibly the Russian HEU and suspension agreements and USEC's privatization in 1998) that were responsible for each change, the time periods any such changes occurred, and the impact such changes had on your purchases of the U.S. produced and subject imported uranium products/services.

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(b) Have uranium inventories have had any effect on uranium product and/or service supply in the U.S. market during January 2000-December 2005, and whether any such effects are likely to occur in the future. Please identify and such suppliers and the countries of origin.

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**PART IV.-SUPPLY FACTORS-Continued**

IV-2. What do you think would be the likely effects, if any, of termination of the uranium suspension agreement with Russia? In discussing effects, consider as a minimum any potential change in imports, U.S. market prices, and purchases from uranium suppliers in the U.S. market. As appropriate, please discuss any potential effects of termination of the suspension agreements on (1) the future activities of your firm and (2) the U.S. market as a whole. Please refer to a future time period of around five years, and respond separately for each uranium product/service. Discuss the factors enumerated in the previous question. *Attach additional pages as needed.*

Activities of your firm:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Market as a whole:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IV-3. (a) Please identify any supply factor(s) (including, but not limited to, any changes in availability or prices of uranium, energy, labor, changes in transportation conditions, production capacity, export markets, inventories, political and public opposition to nuclear power in the United States and Europe, and in alternative production opportunities) that affected the **availability and/or competitiveness** of the subject uranium products/services in the United States and imported into the United States during January 2000-December 2005. Please note the time period(s) of any such changes, the countries of production, the factor(s) involved, and the impact any such changes had on the delivery volumes and prices of the domestic and imported uranium products/services during this period.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**PART IV. SUPPLY FACTORS—Continued**

(b) To the extent that you have relevant information, please discuss the potential future volumes of U.S. and/or Russian production of LEU-HF or other low-enriched uranium products blended-down from HEU. Please identify any changes since January 1, 2000 that have increased or decreased the potential of such production/importation. Report factors affecting what this production volume may be, including capacity to produce LEU-HF via downblending (in SWU and KgU of LEU), access to feed tails for downblending, or other such technical and/or commercial factors affecting the potential production volume. Specify the time period(s) involved. *Attach additional pages of discussion as needed.*

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IV-4. Please provide as separate attachments to this request, to the extent possible, any studies, surveys, etc that you are aware of that quantify and/or otherwise discuss uranium production, capacity utilization, and inventories in (1) the United States, (2) each of the other major producing countries, including Russia, and (3) the world as a whole. Of particular interest is such data on an annual basis from 2000 to the present and forecasts of these supply data.

IV-5. (a) Please estimate below for each of the input uranium products and toll-services shown in **bold** the approximate *percentage* cost share of that input product/toll-service in the total cost of the principal downstream product indicated below based on your firm's actual expenditures for such input products and toll services to meet its reload requirements during 2000-05.

Cost share of <b>Uranium concentrates</b> of total cost to produce natural UF <sub>6</sub> :	
Cost share of <b>Conversion services</b> <sup>1</sup> of total cost to produce natural UF <sub>6</sub> :	
Cost share of <b>Natural UF<sub>6</sub></b> of total cost to produce LEU-HF:	
Cost share of <b>Enrichment services</b> of total cost to produce LEU-HF:	
Cost share of <b>LEU-HF</b> of total cost to produce LEU-DO:	
Cost share of <b>Conversion services</b> <sup>2</sup> of total cost to produce LEU-DO:	
Cost share of <b>LEU-DO</b> of total cost to produce low-enriched uranium pellets:	
<sup>1</sup> Conversion of uranium concentrates to natural UF <sub>6</sub> .	
<sup>2</sup> Conversion of LEU-HF to LEU-DO.	

(b) Are certain uranium products/toll-services or quality of products/services available from only a single source (domestic or foreign)?

Yes       No    If yes, for which product(s)/country(ies):

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**PART IV. SUPPLY FACTORS—Continued**

IV-6. Do you or your customers ever specifically order uranium from one country in particular over other possible sources of supply?

No

Yes--Please identify all relevant countries (including the United States and both subject and nonsubject foreign countries) from which you or your customers prefer to order, and indicate why uranium from these countries is preferred over product from other countries (please note the specific product in your response).

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**PART V. DEMAND FACTORS**

V-1. Please provide as separate attachments to this request any studies, surveys, etc that you are aware of that quantify and/or otherwise discuss demand for uranium products and services in (1) the United States, (2) each of the other major producing/consuming countries, including Russia, and (3) the world as a whole. Of particular interest is such data on an annual basis from 2000 to the present and forecasts of these demand data.

V-2. How has total annual U.S. demand (and, if known, annual demand in the rest of the world) for uranium products/services changed since January 2000? Identify the principal factors leading to any changes in demand. Identify the time period(s) involved and the factor(s) that you believe were responsible for such changes.

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Please discuss any anticipated changes in uranium demand in the United States and, if known, the rest of the world in the future, identifying the time period(s) involved and the factor(s) that you believe would be responsible for such changes. Provide any underlying assumptions that address this issue.

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**PART V.-DEMAND FACTORS-Continued**

V-3. Please discuss how the following market conditions, and any possible changes in these market conditions, may have affected total annual U.S. demand, including changes in sourcing and composition of this demand, for uranium since January 1, 2000 and into the future: (1) deregulation of U.S. electricity supply, (2) the HEU agreement between the United States and Russia, (3) USEC's privatization and developments associated with USEC as a private entity, (4) the age and environmental effects of technology and condition of equipment/facilities used by the U.S. versus other major world producers of uranium, (5) the traditional uranium fuel cycle, (6) prevalence of long-term contracts for uranium, (7) the globalness of the uranium market, and (8) consolidation of U.S. electric utilities using nuclear reactors.

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*Substitution refers to products that can, based on market price considerations and end user/consumer preferences/technical capabilities, reasonably be expected to substitute for each other when the price of one product changes vis-a-vis the price of the other product—some end users/consumers may require greater price changes than others before they switch among the alternative products.*

V-4. Do any substitutes exist for the following uranium products/services:

- Uranium concentrates:  Yes  No
- Natural UF<sub>6</sub>:  Yes  No
- LEU-HF:  Yes  No
- LEU-DO:  Yes  No
- Uranium pellets:  Yes  No
- Uranium fuel rods:  Yes  No

If yes, please describe the extent of the substitutability of each, including whether your firm has substituted for any uranium products/services since January 1, 2000.

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**PART V. DEMAND FACTORS *Continued***

V-5. What products such as, but not limited to, low-enriched uranium dioxide (LEU-DO) substitute for LEU from the U.S. end user's demand perspective? Please indicate how frequently any such substitution may occur and identify the end uses where such substitution may occur.

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V-6. Have there been any changes in the number, types, or quantity/availability of products that can be substituted for uranium products and/or services in the United States since January 1, 2000?

Yes     No

If yes, please discuss fully below.

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V-7. To the extent possible, describe the approximate price sensitivity of the substitutions listed above (i.e., by what percent would the current price of various uranium products/services have to increase, all other prices remaining constant, before U.S. electric utilities would start to substitute the identified alternatives for uranium products/services). Please respond separately for each substitute.

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**PART V. DEMAND FACTORS - Continued**

Discuss substitution in demand among various uranium products such as, but not limited to, those differentiated by assays or by process of purchase, i.e., via enrichment versus purchases of EUP (questions V-8 through V-10).

V-8. What uranium products substitute for each other from the U.S. end user's demand perspective? Please indicate how frequently any such substitution may occur and identify the end uses where such substitution may occur.

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V-9. Have there been any changes in the number, types, or quantity/availability of uranium products and/or services that can be substituted for each other in the United States since January 2000?

Yes  No

If yes, please discuss fully below.

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V-10. (a) To the extent possible, describe the approximate price sensitivity of the substitutions listed above (i.e., by what percent would the current price of one uranium product have to increase, all other prices remaining constant, before U.S. electric utilities would start to substitute the identified alternatives for the particular uranium product). Please respond separately for each substitute.

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(b) What characteristics does your firm consider when evaluating the quality of a supplier's uranium? Respond separately for each type of uranium product/toll-service.

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**PART VI.--COMPETITION FROM IMPORTS**

VI-1. Has the availability of **nonsubject U.S. imported** LEU via enrichment or as EUP changed since January 1, 2000? Please identify in your response the countries of origin of any changed availability and discuss the impact of any such change(s) on U.S. market prices and quantities of LEU via enrichment and as EUP, and on your firm's purchase prices and quantities of the U.S. produced and subject U.S. imported LEU via enrichment and as EUP.

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**PART VI.--COMPETITION FROM IMPORTS--Continued**

VI-2. For the factors listed below, please rate each in terms of its importance in your purchase decision for uranium products/services (specify where indicated). Copy this page as needed to report for each of the uranium products/services that you purchase.

Uranium concentrates  Natural UF<sub>6</sub>  LEU-HF  LEU-DO

Conversion (to natural UF<sub>6</sub>) services  Enrichment services  Fabrication services

Purchase factors:	Very important	Somewhat important	Not important
	<i>(please ✓ check)</i>		
Availability			
Delivery terms			
Delivery times			
Discounts offered			
Diverse source of supply			
Lowest price			
Minimum quantity requirements			
Packaging			
Product consistency			
Product quality			
Product range			
Reliability of supply			
Technical support/service			
Transportation network			
U.S. transportation costs			
Escalation provisions			
Amendment to existing contracts			
Payment terms			
Feed delivery terms			
LEU delivery terms			
Tails assay option			
Discounts on conversion of uranium concentrates			
Delivery of U <sub>3</sub> O <sub>8</sub> in lieu of UF <sub>6</sub>			
Other:			

**PART VI.--COMPETITION FROM IMPORTS--Continued**

VI-3. For the factors listed below, please rate how uranium produced in each country you identified in your response on page 8 compares with uranium produced in each of the other countries you identified (particularly, as applicable, the United States, Russia, Ukraine, and Uzbekistan).

Copy this page as necessary and please attach any comments you care to make concerning your responses, especially in comparisons where you rate a product from one country superior or inferior to a product from another country. If your responses are the same for more than one type of uranium product/toll-service, group all of them together and identify them where provided, otherwise copy this table as needed to report for different types of uranium products/toll-services.

**If you report United States compared to Russia and check “superior” for availability, this means that you rate U.S.-produced uranium as superior to Russian uranium with respect to availability.**

(Country 1)	compared to			(Country 2)
<b>Uranium product(s)/toll-service(s):</b>				
Purchase factors:	Superior	Comparable	Inferior	
	<i>(please check)</i>			
Availability				
Delivery terms				
Delivery times				
Discounts offered				
Lowest price <sup>1</sup>				
Minimum quantity requirements				
Packaging				
Product consistency				
Product quality				
Product range				
Reliability of supply				
Technical support/service				
Transportation network				
U.S. transportation costs				
Escalation provisions				
Amendments to existing contracts				
Payment terms				
Feed delivery terms				
LEU delivery terms				
Tails assay option				
Discounts on conversion of uranium concentrates				
Delivery of U <sub>3</sub> O <sub>8</sub> in lieu of UF <sub>6</sub>				
Other:				

<sup>1</sup> A rating of “superior” means that the price is generally lower. For example, if you report United States compared to France and check “superior”, this means that you rate the U.S. price as generally lower than the French price. Conversely, if you were to check “inferior” in this example, you would be rating the U.S. price as being generally higher than the French price.







**PART VII.--SUPPLIER IDENTIFICATION**

Please identify below the names and addresses of your firm's 10 largest suppliers of its purchased uranium products/services that were delivered during January 2000-December 2005. Please also provide the name of the supplier and the country of origin, address, a contact person and telephone number, and the approximate percentage shares of the quantity of your firm's total purchases of that product or service that each of these suppliers accounted for during January 2000-December 2005. Answer separately by each product/service; check as appropriate at the top of the table, and *copy this table as needed*.

Uranium concentrates  Natural UF<sub>6</sub>  LEU-HF  EUP  LEU-DO

Conversion (to natural UF<sub>6</sub>) services  Enrichment services  Fabrication services

No.	Supplier's name and countries of origin of uranium	Street address, state, and zip code	Contact person	Area code and telephone number	Share of all 2005 deliveries (%)
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					